

Table 10.4 Biodiesel Overview, 2001-2009

Year	Feedstock ¹	Losses and Co-products ²	Production			Trade			Stocks ⁴	Stock Change ⁵	Balancing Item ⁶	Consumption		
						Imports	Exports	Net Imports ³						
	Trillion Btu	Trillion Btu	Thousand Barrels	Million Gallons	Trillion Btu	Thousand Barrels	Thousand Barrels	Thousand Barrels	Thousand Barrels	Thousand Barrels	Thousand Barrels	Thousand Barrels	Million Gallons	Trillion Btu
2001	1	(s)	204	9	1	78	39	39	NA	NA	NA	243	10	1
2002	1	(s)	250	10	1	191	56	135	NA	NA	NA	385	16	2
2003	2	(s)	338	14	2	94	110	-16	NA	NA	NA	322	14	2
2004	4	(s)	666	28	4	97	124	-26	NA	NA	NA	640	27	3
2005	12	(s)	2,162	91	12	207	206	1	NA	NA	NA	2,163	91	12
2006	32	(s)	5,963	250	32	1,069	828	242	NA	NA	NA	6,204	261	33
2007	63	1	11,662	490	62	3,342	6,477	-3,135	NA	NA	NA	8,528	358	46
2008	88	1	^R 16,145	^R 678	87	7,502	16,128	-8,626	NA	NA	NA	^R 7,519	^R 316	^R 40
2009 ^P	69	1	12,657	532	68	1,844	6,332	-4,489	506	506	419	8,082	339	43

¹ Total vegetable oil and other biomass inputs to the production of biodiesel.

² Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

³ Net imports equal imports minus exports.

⁴ Stocks are at end of year.

⁵ A negative value indicates a decrease in stocks and a positive value indicates an increase.

⁶ Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition.

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A3). • Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.census.gov/manufacturing/cir/historical_data/m311k/index.html for related information.

Sources: **Feedstock:** Calculated as biodiesel production in thousand barrels multiplied by 5.433 million Btu per barrel (the biodiesel feedstock factor—see Table A3). **Losses and Co-products:** Calculated as biodiesel feedstock minus biodiesel production. **Production:** • 2001-2005—U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. • 2006—U.S. Department of Commerce, Bureau of the Census, "M311K - Fats and Oils:

Production, Consumption, and Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, the EIA, Office of Integrated Analysis and Forecasting, estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel). • 2007—U.S. Department of Commerce, Bureau of the Census, "M311K - Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel). • 2008—EIA, *Monthly Biodiesel Production Report, March 2009* (release date April 2010), Table 10. • 2009—The 2009 annual value is the sum of January-March 2009 values from EIA, *Monthly Biodiesel Production Report, March 2009* (release date April 2010), Table 10; and April-December 2009 values from U.S. Department of Commerce, Bureau of the Census, "M311K - Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel). **Trade:** U.S. Department of Agriculture, imports data for Harmonized Tariff Schedule code 3824.90.40.20 (Fatty Esters Animal/Vegetable/Mixture), and exports data for Schedule B code 3824.90.40.00 (Fatty Substances Animal/Vegetable/Mixture). Although these categories include products other than biodiesel (such as those destined for soaps, cosmetics, and other items), biodiesel is the largest component. In the absence of other reliable data for biodiesel trade, EIA sees these data as good estimates. **Stocks and Stock Change:** • 2009—EIA *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1, data for renewable fuels except fuel ethanol. **Balancing Item:** • 2009—Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports. **Consumption:** • 2001-2008—Calculated as biodiesel production plus biodiesel net imports. • 2009—Calculated as the sum of the monthly consumption data. Data for January and February 2009 are from EIA, *PSM*, monthly reports, Table 1, refinery and blender net inputs of renewable fuels except fuel ethanol. Data for March-December 2009 are calculated as biodiesel production plus biodiesel net imports minus biodiesel stock change.